

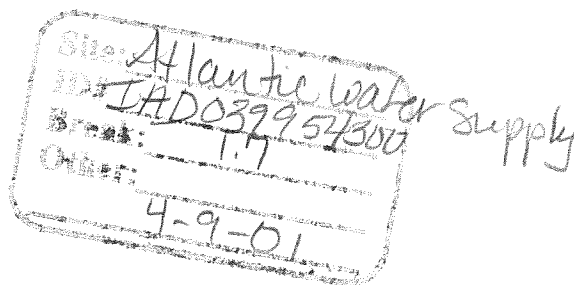
THE UNIVERSITY OF IOWA



09, April 2001

Jon Martens  
Atlantic Municipal Utilities  
15 W 3<sup>rd</sup> Street  
PO Box 517  
Atlantic, IA 50022

RE: UHL Sample #200102388



161224

Dear Mr. Martens:

Sample number 200102388, collected on 4/02/01 from the location of well #7, was originally analyzed for the BEDROC compounds by the OA-1 method. Using the OA-1 method the quantitation limit for Methyl-t-butyl ether is 15ug/l. The compound was detected below the quantitation limit so it was then analyzed by method 524.2 which is a drinking water method with much lower quantitation limits.

Methyl-t-butyl ether was detected again by the 524.2 method. There were also some additional compounds detected and they are as follows, with the "J" meaning it was below the quantitation limit of 0.5ug/l.

Trichlorofluoromethane	0.2 ug/l	J
1,1-Dichloroethene	0.1 ug/l	J
cis-1,2-Dichloroethene	0.2 ug/l	J
Chloroform	0.6 ug/l	
1,1,1-Trichloroethane	0.3 ug/l	J
Trichloroethene	1.3 ug/l	
Tetrachloroethene	110 ug/l	

If you have any questions, please feel free to call.

Sincerely,

Lisa Limkemann  
Chemist

Enclosures

HYGIENIC LABORATORY

102 Oakdale Campus, #H101 OH  
Iowa City, Iowa 52242-5002  
319/335-4500

Iowa's Environmental and  
Public Health Laboratory

FAX: 319/335-4555  
<http://www.uhl.uiowa.edu>



# Hygienic Laboratory

*The University of Iowa*

Date of report: 04-11-2001

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JON MARTENS  
ATLANTIC MUNICIPAL UTILITIES  
15 W 3RD STREET  
PO BOX 517  
ATLANTIC IA 50022

Sample Number 200102388  
Date Received 04-03-2001  
Project BEDROC  
Date Collected 04-02-2001 13:40  
Collection Site well 7  
Collection Town Atlantic  
Description water  
Reference PWS #1509074  
Collector PARROTT TROY  
Phone (712) 243-1395  
Purchase Order

Comments Received samples at 12 degrees C.

## Results of Analyses

### Total Extractable Hydrocarbons

Analyte	Concentration ug/L	Quantitation Limit
Total Extractable Hydrocarbons	< 400	400

Comments The quantitation limit was raised due to the presence of a phthalate which is not typically present in petroleum products. Phthalates are most often associated with plastic products. The presence of the phthalate was determined by gas chromatography/mass spectrometry.

Date Analyzed: 04-05-2001  
Method: OA-2  
Date Extracted: 04-04-2001  
Extraction Method: EPA 3510

Analyst: WB  
Verified: SM  
Analyst: DS  
Verified: GJ

### GC/MS Volatiles

Analyte	Concentration ug/L	Quantitation Limit
Benzene	< 1	1
Toluene	< 2	2
Ethylbenzene	< 2	2
Total Xylenes	< 5	5
Methyl-t-butyl ether (MtBE)	< 15 J	15

Comments Please note that the pH of this sample was greater than 2.5. Please note that Trichloroethylene was found in the analysis of this sample. Tetrachloroethylene was also found at a relatively high concentration in the analysis of this sample. J - Please note that this compound was observed below the quantitation limit in the analysis of this sample.

Date Analyzed: 04-03-2001  
Method: OA-1

Analyst: LL  
Verified: TC



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*The University of Iowa*

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Sample Number 200102388

## GC/MS 524.2 Volatiles

Analyte	Concentration ug/L	Quantitation Limit
Methyl-t-butyl ether (MtBE)	0.7	0.5
Comments	<i>Please note that Chloroform, Trichloroethene and Tetrachloroethene were observed above the quantitation limit in the analysis of this sample. Also note that 1,1-Dichloroethene, Trichlorofluoromethane, cis-1,2-Dichloroethene and 1,1,1-Trichloroethane were observed below the quantitation limit in the analysis of this sample.</i>	

Date Analyzed: 04-04-2001  
Method: EPA 524.2

Analyst: LL  
Verified: JN

### Description of units used within this report

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, ICR, NVLAP, USEPA and other credentials available upon request.

*If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.*